

Computer Science Major

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Year and Campus:	2009																																																					
Contact:	Arts and Music Student Centre Room 104, Ground Floor, Old Arts Building Tel: +61 3 8344 5235 Fax: +61 3 9347 0424																																																					
Overview:	<p>The computer science program aims to develop skilled computer scientists with the technical background, knowledge, and adaptability to contribute to the development of well-designed, robust, computer-based solutions to a range of problems in business and industry.</p> <p>Students study computer science (including introduction to computer programming, algorithms and problem solving, software development) and mathematics. Subjects available in third year include artificial intelligence, database systems, computer networks, and graphics.</p> <p>At all year levels there is a focus on the cultivation of practical skills together with assimilation of the relevant scientific principles. Teaching methods involve a combination of lectures, tutorials, and practical work. Tutorials are provided at all years.</p> <p>Students taking computer science subjects will be required to spend time on practical assignments in addition to lectures, laboratory classes and tutorials.</p>																																																					
Subject Options:	First Year - Core Subjects In addition students should complete a mathematics requirement of at least 25 points at first year. <table><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr><tr><td>433-151 Introduction to Programming (Advanced)</td><td>Not offered 2009</td><td>12.50</td></tr><tr><td>433-172 Algorithmic Problem Solving</td><td>Not offered 2009</td><td>12.50</td></tr><tr><td>433-152 Algorithmic Problem Solving (Advanced)</td><td>Not offered 2009</td><td>12.50</td></tr></table> Second Year - Core Subjects <table><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr><tr><td>433-252 Software Engineering Principles & Tools</td><td>Semester 1</td><td>12.50</td></tr><tr><td>433-253 Algorithms and Data Structures</td><td>Semester 1</td><td>12.50</td></tr><tr><td>433-254 Software Design</td><td>Not offered 2009</td><td>12.50</td></tr><tr><td>433-255 Logic and Computation</td><td>Not offered 2009</td><td>12.50</td></tr></table> Third Year Students should complete at least 50 points of third-year computer science subjects, including four of: <table><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr><tr><td>433-303 Artificial Intelligence</td><td>Semester 2</td><td>12.50</td></tr><tr><td>433-313 Computer Design</td><td>Semester 2</td><td>12.50</td></tr><tr><td>433-330 Theory of Computation</td><td>Semester 1</td><td>12.50</td></tr><tr><td>433-332 Operating Systems</td><td>Semester 1</td><td>12.50</td></tr><tr><td>433-341 Software Engineering Process & Practice</td><td>Semester 1</td><td>12.50</td></tr><tr><td>433-342 Software Engineering Methods</td><td>Semester 2</td><td>12.50</td></tr><tr><td>433-351 Database Systems</td><td>Semester 1</td><td>12.50</td></tr></table>			Subject	Study Period Commencement:	Credit Points:	433-151 Introduction to Programming (Advanced)	Not offered 2009	12.50	433-172 Algorithmic Problem Solving	Not offered 2009	12.50	433-152 Algorithmic Problem Solving (Advanced)	Not offered 2009	12.50	Subject	Study Period Commencement:	Credit Points:	433-252 Software Engineering Principles & Tools	Semester 1	12.50	433-253 Algorithms and Data Structures	Semester 1	12.50	433-254 Software Design	Not offered 2009	12.50	433-255 Logic and Computation	Not offered 2009	12.50	Subject	Study Period Commencement:	Credit Points:	433-303 Artificial Intelligence	Semester 2	12.50	433-313 Computer Design	Semester 2	12.50	433-330 Theory of Computation	Semester 1	12.50	433-332 Operating Systems	Semester 1	12.50	433-341 Software Engineering Process & Practice	Semester 1	12.50	433-342 Software Engineering Methods	Semester 2	12.50	433-351 Database Systems	Semester 1	12.50
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	433-353 Networks and Communications	Semester 2	12.50
	433-361 Programming Language Implementation	Not offered 2009	12.50
	433-371 Interactive System Design	Semester 2	12.50
	433-380 Graphics and Computation	Semester 1	12.50
	433-385 Modelling, Analysis and Visualisation	Not offered 2009	12.50
	433-395 Advanced Topic in Computer Science	Not offered 2009	12.50
Related Course(s):	Bachelor of Arts		